

State of Vermont

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
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AGENCY OF NATURAL RESOURCES Department of Environmental Conservation

Hazardous Materials Management Division 103 South Main Street/West Office Waterbury, Vermont 05671-0404 (802) 241-3888 FAX (802) 241-3296

November 22, 1995

Jack Williams
Merry Meadows Farm
Route 5
Bradford, VT 05033

RE: Site Management Activity Completed, Merry Meadows Farm, Bradford, VT (Site #93-1454)

Dear Mr. Williams:

The Vermont Department of Environmental Conservation, Sites Management Section (SMS) has reviewed the Lincoln Applied Geology report dated October 11, 1995, requesting a SMAC (Site Management Activity Completed) designation at the above referenced site. Contamination was first discovered during the removal of the 550 gallon gasoline underground storage tank (UST), where peak gasoline vapor concentrations of 50 parts per million (ppm) were measured with a photoionization detector (PID). A subsequent soil gas survey conducted with 23 vapor probes yielded only background PID levels to a depth of 3 feet below ground surface (bgs).

Soils in the subsurface consist of interbedded layers of clay, clayey silt, silty clay, and silt that significantly impede the migration of any infiltrating water or residual contamination. It appears that a perched water zone is present in the vicinity of the former tank pit due to water infiltrating the permeable excavation backfill and collecting above the less permeable native soils. Groundwater collected from a monitoring well installed into this perched water zone contained dissolved MTBE and BTEX compounds at concentrations of 3,670 parts per billion (ppb) and <300 ppb respectively on October 22, 1993. Subsequent sampling from this perched zone on May 31, 1994 indicated the presence of only 72 ppb BTEX and <1 ppb MTBE. The "true" groundwater table is believed to be located at a depth of greater than 30 feet bgs. During the installation of two downgradient monitoring wells, no evidence of contamination or groundwater was detected to a depth of 30 feet bgs.

The Connecticut River is located 400 feet northeast, and is not believed to be threatened by any residual contamination. There are no known drinking water supplies located downgradient of this site. Additionally, the onsite building contained no evidence of petroleum contamination according to a PID. Based on the current conditions at this site, the SMS has determined that this site is now eligible for a SMAC designation. This means that the SMS has determined the following:

- the gasoline UST has been removed from the ground, and is no longer a potential continuing source of petroleum contamination at this site;
- groundwater at this site is believed to be located at a depth exceeding 30 feet bgs, and is not threatened by the small gasoline release at this site;
- there is no evidence of a direct contact risk from petroleum contamination within the first few feet of soil, and any deeper residual petroleum contaminated soil does not pose a risk to groundwater; and
- any residual contamination does not pose an unacceptable risk to human health or the environment.

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Based on these findings, the SMS has determined that site management activities have been completed. The completion of these activities does not release Merry Meadows Farm of any past or future liability which may arise from the petroleum contamination discovered to have originated from the gasoline UST at the Merry Meadows Farm site. It does mean that the SMS is not requiring any additional work be performed in response to the contamination discovered at this site. If you have any questions or comments, please feel free to contact either me or Matt Moran at (802)-241-3888.

Sincerely,

Chuck Schwer, Acting Chief Sites Management Section

cc:

Bradford Selectboard
DEC Regional Office
William Norland, Lincoln Applied Geology, Inc.

CS:mattm/wp/931454amac